

BRUHAT BENGALURU MAHANAGARA PALIKE, YELAHANKA
PROJECTS DIVISION



Name of Work:- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

QUALITY CONTROL REPORTS

"SECOND AND PART BILL"

PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothona Grants

Quality Control Abstract

Job code: 003-23-000003

Bill Number: Second & Part Bill

Name of contractor: Sri Gopi Reddy

Sl No.	Description of Materials	Test	No of Units Tested	No of samples conducted	Test result	Remarks
1	Cement	IS: 12269-1987	Per Batch	Per Batch	Satisfactory	-
	Fine					
2	Aggregates	IS: 383-1970	Per Batch	Per Batch	Satisfactory	-
	Course					
3	Aggregates	As per Morth	Per Batch	Per Batch	Satisfactory	-
	Steel TMT	IS: 1876:2008, IS 1608:2005, IS1599:1985	Per Batch	Per Batch	Satisfactory	-
	M15 Concrete	Compressive Strength (IS 516-1959)	42	42	Satisfactory	-
	M25 Concrete	Compressive Strength (IS 516-1959)	36	36	Satisfactory	-
	MS Grill	Technical Ref: IS.432 & IS 2062:2011	Per Batch	Per Batch	Satisfactory	-
	Kerb	Compressive Strength (IS 516-1959) Core Cutting Method	Per Batch	Per Batch	Satisfactory	-
	Paver/ Cobble Stone	Compressive Strength (IS 516-1959)	Per Batch	Per Batch	Satisfactory	-



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Asst. Executive Engineer
Project Division
Yelahanka Zone - 92
BBMP, Bangalore - 92



NO: YEL-P/PMC/PKG-03/Cement

Date: 28/11/2022

1. Test report on cement :

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	184 Min	Shall Not be less than 30 Min
2.	Final Setting Time	255 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	2.11 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	3.10 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	30.10 N/Sqmm	Shall not be less than 27 N /Sq mm



Asst. Executive Engineer
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Yelahanka Zone
BBMP, Bangalore - 92



NO: YEL-P/PMC/PKG-03/Cement

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Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	176 Min	Shall Not be less than 30 Min
2.	Final Setting Time	280 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	2.90%	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.40 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	29.50 N/Sqmm	Shall not be less than 27 N /Sq mm



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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



NO: YEL-P/PMC/PKG-03/Cement

Date: 01/12/2022

1. Test report on cement:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

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Name of Agency/ contractor: Sri K Gopi Reddy.

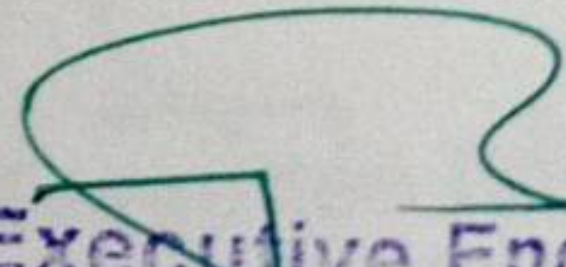
PHYSICAL TESTS ON CEMENT

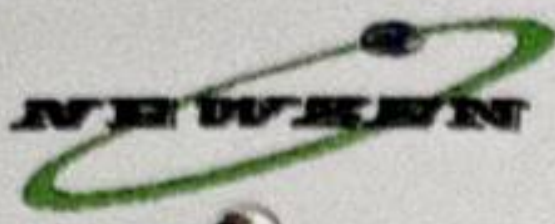
Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	172 Min	Shall Not be less than 30 Min
2.	Final Setting Time	280 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	2.50 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.60 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	31.65 N/Sq mm	Shall not be less than 27 N /Sq mm




Asst. Executive Engineer
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Yelahanka Zone
BBMP, Bangalore - 92



NO: YEL-P/PMC/PKG-03/Cement

Date: 09/12/2022

1. Test report on cement:

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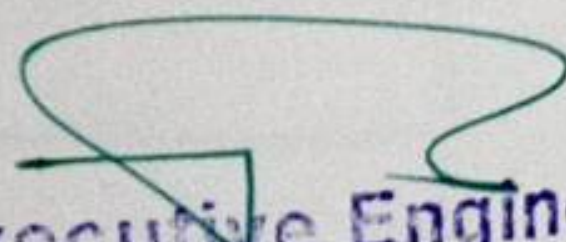
PHYSICAL TESTS ON CEMENT

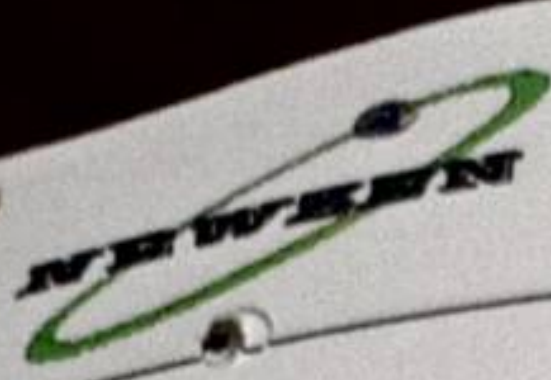
Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	177 Min	Shall Not be less than 30 Min
2.	Final Setting Time	295 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.90 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.00 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	29.50 N/Sqmm	Shall not be less than 27 N /Sq mm




Asst. Executive Engineer
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Yelahanka Zone
BBMP, Bangalore - 92



NO: YEL-P/PMC/PKG-03/Cou Agg

Date: 28/11/2022

TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

TEST RESULTS

1. Gradation Test:

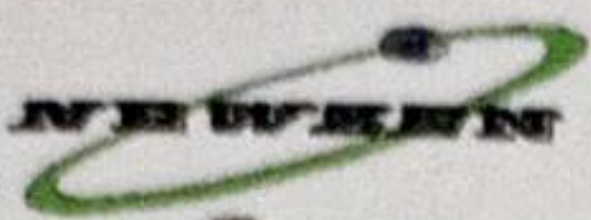
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision- 2013
53.00	100.00	100
45.00	97.15	95-100
26.50	---	-
22.40	79.25	60-80
11.20	53.40	40-60
4.75	36.15	25-40
2.36	24.60	15-30
0.600	19.35	8-22
0.075	3.85	0-5



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Yelahanka Zone



Date: 28/11/2022

TABLE 1.2

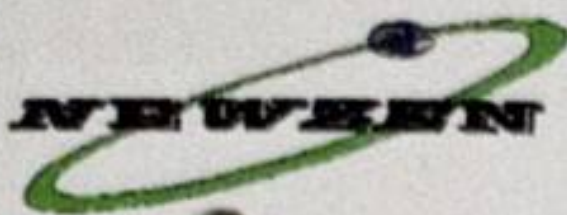
SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.50 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.80 %	Not more than 35.0 %
3.	Water absorption, %	0.75 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %



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BBMP, Bangalore - 92



NO: YEL-P/PMC/PKG-03/Cou Agg

Date: 28/11/2022

TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

Sub: To conduct tests on Course Aggregates (Grade-V) mix.

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision- 2013
53.00	100.00	100
45.00	94.35	95-100
26.50	---	-
22.40	74.15	60-80
11.20	52.10	40-60
4.75	36.45	25-40
2.36	26.70	15-30
0.600	18.05	8-22
0.075	3.45	0-5

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Asst. Executive Engineer
Project Division
Yelahanka Zone



Date: 28/11/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.65 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.50 %	Not more than 35.0 %
3.	Water absorption, %	0.55 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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Yelahanka Zone
BBMP, Bangalore - 92

NO: YEL-P/PMC/PKG-03/Con Agg

Date: 28/11/2022

**TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)**

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

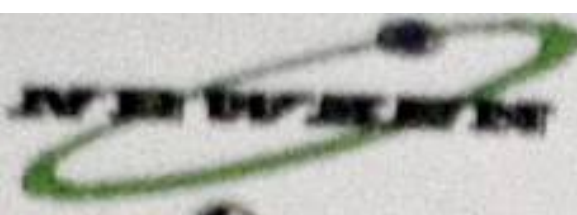
Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision- 2013
53.00	100.00	100
45.00	94.35	95-100
26.50	---	-
22.40	74.15	60-80
11.20	52.10	40-60
4.75	36.45	25-40
2.36	26.70	15-30
0.600	18.05	8-22
0.075	3.45	0-5



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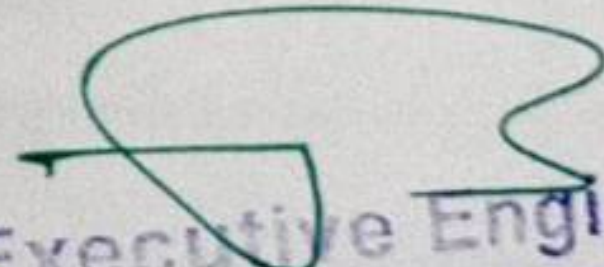
Date: 28/11/2022

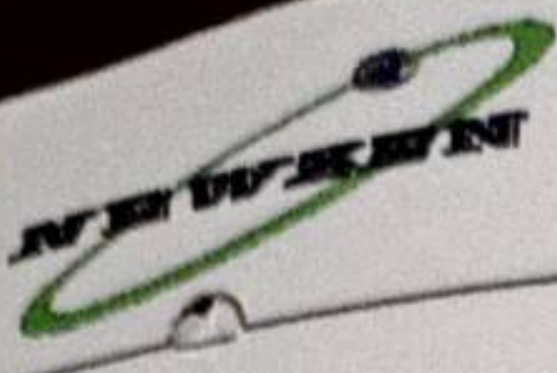
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SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.70 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.00 %	Not more than 35.0 %
3.	Water absorption, %	0.50 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %



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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



NO: YEL-P/PMC/PKG-03/Cou Agg

Date: 01/12/2022

TEST REPORT ON COURSE AGGREGATES **(GRADATION TEST)**

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

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45.00	97.15	95-100
26.50	---	-
22.40	79.25	60-80
11.20	53.40	40-60
4.75	36.15	25-40
2.36	24.60	15-30
0.600	19.35	8-22
0.075	3.85	0-5



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Project Division
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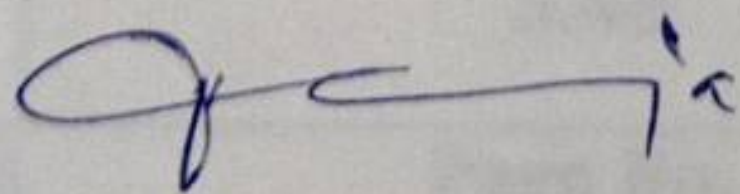
BBMP, Bangalore - 92

Date: 01/12/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.65%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.50%	Not more than 35.0 %
3.	Water absorption, %	0.55 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



NO: YEL-P/PMC/PKG-03/Cou Agg

Date: 01/12/2022

TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

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0.075	3.45	0-5

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Asst. Executive Engineer
Project Division
Yelahanka Zone



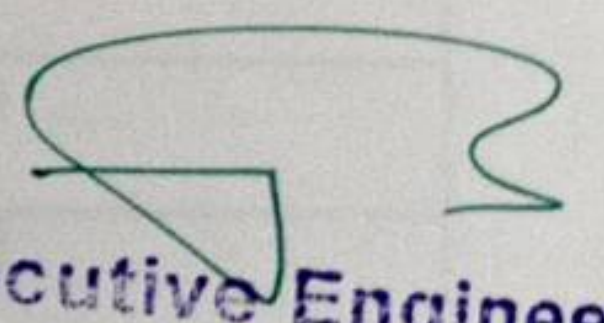
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1.	Aggregate Impact Value	27.00 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.10 %	Not more than 35.0 %
3.	Water absorption, %	0.60 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



NO: YEL-P/PMC/PKG-03/Cou Agg

Date: 09/12/2022

TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



Date: 09/12/2022

TABLE 1.2

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1.	Aggregate Impact Value	28.50. %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.60 %	Not more than 35.0 %
3.	Water absorption, %	0.70 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %



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Yelahanka Zone
BBMP, Bangalore - 92



NO: YEL-P/PMC/PKG-03/Cou Agg

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TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

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26.50	---	-
22.40	74.15	60-80
11.20	52.10	40-60
4.75	36.45	25-40
2.36	26.70	15-30
0.600	18.05	8-22
0.075	3.45	0-5

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Project Division
Yelahanka Zone



Date: 09/12/2022

TABLE 1.2

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3.	Water absorption, %	0.60 %	Not more than 2.0 %
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Asst. Executive Engineer
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BBMP, Bangalore - 92